

REMARKS/ARGUMENTS

Reexamination of the captioned application is respectfully requested.

A. SUMMARY OF THIS AMENDMENT

By the current amendment, Applicants basically:

1. Without conceding the propriety of the claims as previously worded, amend claims 1 and 36 to moot the rejection under 35 USC §112, second paragraph (please note that dependent claim 38 does not include the word “essentially”).
2. Amend independent claims 34 and 37.
3. Editorially amend claims 1, 8, 19, 22 – 23, 25 – 27, 29, and 36.
4. Respectfully traverse all prior art rejections.

B. PATENTABILITY OF THE CLAIMS

Claims 4, 8, 12, 15, 22-23, 26 and 32-34 stand rejected under 35 USC 102(b) as being anticipated by U.S. Patent 5,966,657 to Sporre. Claims 1-3, 18-21, 31, 36 and 38 stand rejected under 35 USC 103(a) as being unpatentable over U.S. Patent 5,966,657 to Sporre in view of U.S. Patent 6,754,509 to Khan et al. Claim 28 stands rejected under 35 USC §103(a) as being unpatentable over U.S. Patent 5,966,657 to Sporre and U.S. Patent 6,754,509 to Khan in view of Applicants' Admitted Prior Art (Schramm et al). All prior art rejections are respectfully traversed for at least the following reasons. Claim 10 stands rejected under 35 USC §103(a) as being unpatentable over U.S. Patent 5,966,657 to Sporre and U.S. Patent 6,754,509 to Khan in view of U.S. Patent 6,594,250 to Silventoinen et al. Claim 11 stands rejected under 35 USC §103(a) as being unpatentable over U.S. Patent 5,966,657 to Sporre in view of U.S. Patent 5,583,870 to Delprat et al. Claims 13 and 27 stand rejected under 35 USC §103(a) as being unpatentable over U.S. Patent 5,966,657 to Sporre in view of U.S. Patent 5,966,657 to Kansakoski et al. Claims 9 and 25 stand rejected under 35 USC §103(a) as being unpatentable over U.S. Patent

5,966,657 to Sporre in view of U.S. Patent 6,690,751 to Nikula et al. Claims 16, 17, 29 and 30 stand rejected under 35 USC §103(a) as being unpatentable over U.S. Patent 5,966,657 to Sporre in view of U.S. Patent 6,125,125 to Narasimha et al. All prior art rejections are respectfully traversed for at least the following reasons.

Independent claim 34 has been amended to specify that the acts thereof are preformed for each of plural types of logical channels carried on a broadcast frequency channel over a TDMA-based wireless communications link. Similarly, independent claim 37 has been amended to recite that the mobile station is arranged to receive at least a portion of each of plural signal bursts belonging to respective plural types of logical channels carried on a broadcast frequency channel, and that for each of the plural signal bursts, a training sequence is estimated based on the respective signal burst and used for identifying a target base station from which the respective signal burst was received.

Support for the amendments to independent claims 34 and 37 reside throughout the specification. For example, on page 13, line 18+, it is stated that the broadcast frequency channel comprises plural logical channels (some of the types of logical channels are listed in the remainder of the paragraph). Moreover, the specification explains that the base station (BS) identity is related to a training sequence code, so that a mobile station (MS) may determine the BS identity *regardless of which logical channel the received burst belongs to*, by ...deriving the training sequence code. Further, page 14, line 25 states that “the normal burst 20 may belong to *any* logical channel and includes a bit field with a training sequence”. Thus, as stated on page 15, line 12+, Applicants provide opportunities for the MS to determine the BS identity from *all* normal bursts.

Independent claims 34 and 37 have also been amended to clarify that the training sequence is used to facilitate synchronization and decoding or detection of the respective signal burst. Support resides throughout the specification, including page 14, lines 3 – 5.

By contrast, U.S. Patent 5,966,657 to Sporre describes, e.g., in Col. 11, the GSM traditional approach of obtaining the base station identity (BSIC) in time slot 0 on one logical channel (BCCH). Applicants submit that time slot 0 of the BCCH is not used as a training sequence, and certainly not in a sense to facilitate synchronization and decoding or detection of the respective signal burst. Yet regardless of whether time slot 0 of BCCH facilitates synchronization or not, it is clear that U.S. Patent 5,966,657 to Sporre does not provide base station identity in training sequences provided in plural types of logical channels.

A disadvantage of the Sporre approach of providing BS identification in one logical channel (BCCH) is that occurrences of the BCCH are spaced over time and are subject to interference. The BCCH is the channel upon which the MS is to measure for signal strength, etc. But if the one or more instances of the BS as carried on the BCCH suffer from interference, the MS cannot associate a signal strength measurement or the like with the BS which broadcasts the BCCH. The ability of the MS to thus measure and report BS strengths is thus thwarted.

Applicants solve problems such as the foregoing by providing base station identification information – *derivable from a training sequence!* – in plural types of logical channels, not just a logical channel that traditionally carries a BSIC or the like. Neither Sporre nor any applied reference teaches or suggests, either alone or in combination, the subject matter of the amended independent claims.

C. MISCELLANEOUS

In view of the foregoing and other considerations, all claims are deemed in condition for allowance. A formal indication of allowability is earnestly solicited.

The Commissioner is authorized to charge the undersigned's deposit account #14-1140 in whatever amount is necessary for entry of these papers and the continued pendency of the captioned application.

Should the Examiner feel that an interview with the undersigned would facilitate allowance of this application, the Examiner is encouraged to contact the undersigned.

Respectfully submitted,

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